SEQUENCE LISTING

- (1) GENERAL INFORMATION
- (ii) TITLE OF THE INVENTION: NEW HUMAN PHOSPHATIDYLINOSITOL (4,5) BISPHOSPHATE 5-PHOSPHATASE
- (iii) NUMBER OF SEQUENCES: 5
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Incyte Genomics, Inc.
 - (B) STREET: 3160 Porter Drive
 - (C) CITY: Palo Alto
 - (D) STATE: CA
 - (E) COUNTRY: USA
 - (F) ZIP: 94304
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Diskette
 - (B) COMPUTER: IBM Compatible
 - (C) OPERATING SYSTEM: DOS
 - (D) SOFTWARE: FastSEQ for Windows Version 2.0
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: To Be Assigned
 - (B) FILING DATE: Filed Herewith
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 09/258,643; 08/884,681
 - (B) FILING DATE: February 26, 1999; June 27, 1997
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Eckstrom, Richard A.
 - (B) REGISTRATION NUMBER: 37,027
 - (C) REFERENCE/DOCKET NUMBER: PF-0334-2 DIV
- (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 650-855-0555
 - (B) TELEFAX: 650-845-4166
 - (2) INFORMATION FOR SEQ ID NO:1:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 372 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (A) LIBRARY: BRSTNOT03
 - (B) CLONE: 638789
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Met Gln Gly Ile Leu Leu Val Phe Ala Lys Tyr Gln His Leu Pro 20 25 30

Tyr Ile Gln Ile Leu Ser Thr Lys Ser Thr Pro Thr Gly Leu Phe Gly 35 40 45

Tyr Trp Gly Asn Lys Gly Gly Val Asn Ile Cys Leu Lys Leu Tyr Gly

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55
Tyr Tyr Val Ser Ile Ile Asn Cys His Leu Pro Pro His Ile Ser Asn
           70
                         75
Asn Tyr Gln Arg Leu Glu His Phe Asp Arg Ile Leu Glu Met Gln Asn
                                90
Cys Glu Gly Arg Asp Ile Pro Asn Ile Leu Asp His Asp Leu Ile Ile
          100
                            105
                                               110
Trp Phe Gly Asp Met Asn Phe Arg Ile Glu Asp Phe Gly Leu His Phe
       115
                        120
                                         125
Val Arg Glu Ser Ile Lys Asn Arg Cys Tyr Gly Gly Leu Trp Glu Lys
                                       140
Asp Gln Leu Ser Ile Ala Lys Lys His Asp Pro Leu Leu Arg Glu Phe
                150
                                   155
Gln Glu Gly Arg Leu Leu Phe Pro Pro Thr Tyr Lys Phe Asp Arg Asn
                                170
              165
Ser Asn Asp Tyr Asp Thr Ser Glu Lys Lys Arg Lys Pro Ala Trp Thr
          180
                            185
                                               190
Asp Arg Ile Leu Trp Arg Leu Lys Arg Gln Pro Cys Ala Gly Pro Asp
   195 200 205
Thr Pro Ile Pro Pro Ala Ser His Phe Ser Leu Ser Leu Arg Gly Tyr
          215
                                       220
Ser Ser His Met Thr Tyr Gly Ile Ser Asp His Lys Pro Val Ser Gly
                                   235
              230
Thr Phe Asp Leu Glu Leu Lys Pro Leu Val Ser Ala Pro Leu Ile Val
              245
                                250
Leu Met Pro Glu Asp Leu Trp Thr Val Glu Asn Asp Met Met Val Ser
          260
                            265
                                270
Tyr Ser Ser Thr Ser Asp Phe Pro Ser Ser Pro Trp Asp Trp Ile Gly
                        280
Leu Tyr Lys Val Gly Leu Arg Asp Val Asn Asp Tyr Val Ser Tyr Ala
                                      300
 290
                  295
Trp Val Gly Asp Ser Lys Val Ser Cys Ser Asp Asn Leu Asn Gln Val
                 310
                                    315
Tyr Ile Asp Ile Ser Asn Ile Pro Thr Thr Glu Asp Glu Phe Leu Leu
                             330
             325
                                        335
Cys Tyr Tyr Ser Asn Ser Leu Arg Ser Val Val Gly Ile Ser Arg Pro
                         345
                                            350
Phe Gln Ile Pro Pro Gly Ser Leu Arg Glu Asp Pro Leu Gly Glu Ala
               360
      355
Gln Pro Gln Ile
   370
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(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2573 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (A) LIBRARY: BRSTNOT03
 - (B) CLONE: 638789

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

GAAGGCTCAG	CATACACGTC	GTGACTTGGA	ACGTGGCTTC	GGCAGCGCCC	CTCGAGCTCT	60
CAGTGACCTG	CTTCAGCTGA	ACAACCGGAA	CCTCAATCTT	GACATATATG	TTATTGGTTT	120
GCAGGAATTG	AACTCTGGGA	TCATAAGCCT	CCTTTCCGAT	GCTGCCTTTA	ATGACTCGTG	180
GAGCAGTTTC	CTCATGGATG	TGCTTTCCCC	TCTGAGCTTC	ATCAAGGTCT	CCCATGTCCG	240
TATGCAGGGG	ATCCTCTTAC	TGGTCTTTGC	CAAGTATCAG	CATTTGCCCT	ATATCCAGAT	300
TCTGTCTACT	AAATCCACCC	CCACTGGCCT	GTTTGGGTAC	TGGGGGAACA	AAGGTGGAGT	360
CAACATCTGC	CTGAAGCTTT	ATGGCTACTA	TGTCAGCATC	ATCAACTGCC	ACCTGCCTCC	420
CCACATTTCC	AACAATTACC	AGCGGCTGGA	GCACTTTGAC	CGGATCCTGG	AGATGCAGAA	480
TTGTGAGGGG	CGAGACATCC	CAAACATCCT	GGACCACGAC	CTCATTATCT	GGTTTGGAGA	540
CATGAACTTT	CGGATCGAGG	ACTTTGGGTT	GCACTTTGTT	CGGGAATCCA	TTAAAAATCG	600

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GTGCTACGGT GGCCTGTGGG AGAAGGACCA GCTCAGCATT GCCAAGAAAC ATGACCCGCT
GCTCCGGGAG TTCCAGGAGG GCCGCCTACT CTTCCCGCCC ACCTACAAGT TTGATAGGAA
CTCCAACGAC TATGACACCA GTGAGAAAAA ACGCAAGCCT GCATGGACCG ATCGCATCCT
GTGGAGGCTG AAGCGGCAGC CCTGTGCTGG CCCCGACACT CCCATACCGC CGGCGTCACA
CTTCTCCTTG TCTCTGAGGG GCTACAGCAG CCACATGACG TACGGCATCA GCGACCACAA
GCCTGTCTCC GGCACGTTCG ACTTGGAGCT GAAGCCATTG GTGTCTGCTC CGCTGATCGT
CCTGATGCCC GAGGACCTGT GGACCGTGGA AAATGACATG ATGGTCAGCT ACTCTTCAAC
                                                                   1020
CTCGGACTTC CCCAGCAGCC CGTGGGACTG GATTGGACTG TACAAGGTGG GGCTGCGGGA
CGTTAATGAC TACGTGTCCT ATGCCTGGGT CGGGGACAGC AAGGTCTCCT GCAGCGACAA
CCTGAACCAG GTTTACATCG ACATCAGCAA TATCCCTACC ACTGAAGATG AGTTTCTCCT
CTGTTACTAC AGCAACAGTC TGCGTTCTGT GGTGGGGATA AGCAGACCCT TCCAGATCCC
GCCTGGCTCC TTGAGGGAGG ACCCACTGGG TGAAGCACAG CCACAGATCT GAGCCAGGAT
GGGAGTGAAT CCCAGGCGGA GGCCAGAGCT GGCAGCCAGC TCTGCCTTTC CACTGCCGGG
AGTGCTGGGG GCCCAGCCTG GCCCCTGAA GAGACAGCCA AGTGTCGTCC ACATACTCCT
CCCAGAGTGA GCTCTAACCA GGCTCATTTG CTCTCTCCAC TACTCATCTC TGGAATTAGC
                                                                   1500
CGCTTAAATA CAGGTTTTTG TTGCTGAGAT GTGAGTGAAA CCAGCTAGTG TGTCAACAGT
GAAGACCTGG GGACAGTTCT GCGTCTCATT TCTGGATTCC TACCCCCTCT TCTAGTCTTG
CCCAAGTAGT CCTGCCAGGC ACATGCCCCA TTTGGCACAG GCCTGCATTC TTGTCGTGCC
GTCCTGGGCC TCAGGCTGTC TGGGAGGGGA GATGCTCACA TTTGTACAGG CTACATAGAC
TGGTGCAAGC AGTGCTGGAT TCCAGGAGTC TTGGCATCTC ATAGCTTGTC CCCGTGAGGA
GTGAGCAGAG GGTCTGGGAT TTCTGCTTTC AGCAAAAGCA GTCTGACTCA GTGGGCAGAA
TGGAGGGCC CCTCTAGCCA GGCTCTTACG CCATGGTTAT GAGCAGGTTG ATGAGGGTCC
TTCGGCCAGC ACAACCTTCC TCCCTACTCA CGGCATGGAG TCTGACTGCA TGGAAGTTCC
AGATCCTGAC AGAGAGAACT GGGAAGGATC CAGGTTCGCT TCCGTTGGTA GCTTGAGTCC
CATGCCTCCA CCCTGCCATC TGAGGAAGGG GTGACAAGTG GTCAAGGAGC TGTGGCCACA
GACTTTTCCA GGGTGGTCCT TGGCAGGTGA GGTGCGTCTG TGCCACCCTT GTCAGGAGTC
                                                                   2160
ATTGACGACG GGCCCCCCT GGACCCCCG GGACCTCAGA GTGGGGGCAG GCAGAAGGGA
                                                                   2220
GAACCAGCTC AAGACATTTT GGAGGATCTG GCCCTGGGGT TCTTCAGAGA ACACCCTCTA
GGGGCTTTGG GGACATGGCC TGTCCCCACA TCCAGCACTT GCCTCCGCCA TGGTCACTCG
GCAGCCCTTT TCCCAGGAGA AGACACCTCT GGGAGCCTGC TCAGTGCTTG TCCTGCCATC
CTGTGTCCTG GGACTGAGGG TTACTCCAGT TGCTCTGTGT TGCATACTCT CCCCGCAAG
CCTGTGTATG AAGAATTGTC CCCTGGCTTC CAGCAGGCCA TGGCTGGCTG TTTTGTGACT
                                                                   2520
GTTACATTGT GCAGGGGTAA TTATTAGCGT GGCTTTTACA CTTAAAAAAA AAA
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(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 329 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (A) LIBRARY: GenBank
- (B) CLONE: 1399101

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

135 Lys Pro Ala Trp Thr Asp Arg Ile Leu Trp Arg Leu Lys Arg Gln Pro 150 155 Cys Ala Gly Pro Asp Thr Pro Ile Pro Pro Ala Ser His Phe Ser Leu 170 165 Ser Leu Arg Gly Tyr Ser Ser His Met Thr Tyr Gly Ile Ser Asp His 185 190 Lys Pro Val Ser Gly Thr Phe Asp Leu Glu Leu Lys Pro Leu Val Ser 195 200 205 Ala Pro Leu Ile Val Leu Met Pro Glu Asp Leu Trp Thr Val Glu Asn 215 220 Asp Met Wet Val Ser Tyr Ser Ser Thr Ser Asp Phe Pro Ser Ser Pro 230 235 Trp Asp Trp Ile Gly Leu Tyr Lys Val Gly Leu Arg Asp Val Asn Asp 250 245 Tyr Val Ser Tyr Ala Trp Val Gly Asp Ser Lys Val Ser Cys Ser Asp 260 265 270 Asn Leu Asn Gln Val Tyr Ile Asp Ile Ser Asn Ile Pro Thr Thr Glu 280 285 Asp Glu Phe Leu Leu Cys Tyr Tyr Arg Asn Ser Leu Arg Ser Val Val 290 295 Gly Ile Arg Arg Pro Phe Gln Ile Pro Pro Gly Ser Leu Arg Glu Asp 310 315 Pro Leu Gly Glu Ala Gln Pro Gln Ile 325

(2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 942 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (A) LIBRARY: GenBank
 - (B) CLONE: 1019103

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Val Thr Val Pro Glu Pro Gly Ala Ala Glu Ser Arg Ala Pro Cys Gly 1.0 Asp Ser Ser Gly Gly Cys Val Arg Ser Ala Gly Ala Ser Met Asp Gln 2.0 25 Ser Val Ala Ile Gln Glu Thr Leu Ala Glu Gly Glu Tyr Cys Val Ile 40 Ala Val Gln Gly Val Leu Cys Glu Gly Asp Ser Arg Gln Ser Arg Leu 55 Leu Gly Leu Val Arg Tyr Arg Leu Glu His Gly Gly Gln Glu His Ala 70 75 Leu Phe Leu Tyr Thr His Arg Arg Met Ala Ile Thr Gly Asp Asp Val 85 90 Ser Leu Asp Gln Ile Val Pro Val Ser Arg Asp Phe Thr Leu Glu Glu 105 Val Ser Pro Asp Gly Glu Leu Tyr Ile Leu Gly Ser Asp Val Thr Val 120 125 Gln Leu Asp Thr Ala Glu Leu Ser Leu Val Phe Gln Leu Pro Phe Gly 135 140 Ser Gln Thr Arg Met Phe Leu His Glu Val Ala Arg Ala Cys Pro Gly 150 155 Phe Asp Ser Ala Thr Arg Asp Pro Glu Phe Leu Trp Leu Ser Arg Tyr 165 170 175 Arg Cys Ala Glu Leu Glu Leu Glu Met Pro Thr Pro Arg Gly Cys Asn 180 185 190 Ser Ala Leu Val Thr Trp Pro Gly Tyr Ala Thr Ile Gly Gly Gly 200

Ser Asn Phe Asp Gly Leu Arg Pro Asn Gly Lys Gly Val Pro Met Asp 215 220 Gln Ser Ser Arg Gly Gln Asp Lys Pro Glu Ser Leu Gln Pro Arg Gln Asn Lys Ser Lys Ser Glu Ile Thr Asp Met Val Arg Ser Ser Thr Ile Thr Val Ser Asp Lys Ala His Ile Leu Ser Met Gln Lys Phe Gly Leu Arg Asp Thr Ile Val Lys Ser His Leu Leu Gln Lys Glu Glu Asp Tyr Thr Tyr Ile Gln Asn Phe Arg Phe Phe Ala Gly Thr Tyr Asn Val Asn Gly Gln Ser Pro Lys Glu Cys Leu Arg Leu Trp Leu Ser Asn Gly Ile Gln Ala Pro Asp Val Tyr Cys Val Gly Phe Gln Glu Leu Asp Leu Ser Lys Glu Ala Phe Phe Phe His Asp Thr Pro Lys Glu Glu Glu Trp Phe Lys Ala Val Ser Glu Gly Leu His Pro Asp Ala Lys Tyr Ala Lys Val Lys Leu Ile Arg Leu Val Gly Ile Met Leu Leu Leu Tyr Val Lys Gln Glu His Ala Ala Tyr Ile Ser Glu Val Glu Ala Glu Thr Val Gly Thr Gly Ile Met Gly Arg Met Gly Asn Lys Gly Gly Val Ala Ile Arg Phe Gln Phe His Asn Thr Ser Ile Cys Val Val Asn Ser His Leu Ala Ala His Ile Glu Glu Tyr Glu Arg Arg Asn Gln Asp Tyr Lys Asp Ile Cys Ser Arg Met Gln Phe Cys Gln Pro Asp Pro Ser Leu Pro Pro Leu Thr Ile Ser Asn His Asp Val Ile Leu Trp Leu Gly Asp Leu Asn Tyr Arg Ile Glu Glu Leu Asp Val Glu Lys Val Lys Leu Ile Glu Glu Lys Asp Phe Gln Met Leu Tyr Ala Tyr Asp Gln Leu Lys Ile Gln Val Ala Ala Lys Thr Val Phe Glu Gly Phe Thr Glu Gly Glu Leu Thr Phe Gln Pro Thr Tyr Lys Tyr Asp Thr Gly Ser Asp Asp Trp Asp Thr Ser Glu Lys Cys Arg Ala Pro Ala Trp Cys Asp Arg Ile Leu Trp Lys Gly Lys Asn Ile Thr Gln Leu Ser Tyr Gln Ser His Met Ala Leu Lys Thr Ser Asp His Lys Pro Val Ser Ser Val Phe Asp Ile Gly Val Arg Val Val Asn Asp Glu Leu Tyr Arg Lys Thr Leu Glu Glu Ile Val Arg Ser Leu Asp Lys Met Glu Asn Ala Asn Ile Pro Ser Val Ser Leu Ser Lys Arg Glu Phe Cys Phe Gln Asn Val Lys Tyr Met Gln Leu Lys Val Glu Ser Phe Thr Ile His Asn Gly Gln Val Pro Cys His Phe Glu Phe Ile Asn Lys Pro Asp Glu Glu Ser Tyr Cys Lys Gln Trp Leu Asn Ala Asn Pro Ser Arg Gly Phe Leu Leu Pro Asp Ser Asp Val Glu Ile Asp Leu Glu Leu Phe Val Asn Lys Thr Thr Ala Thr Lys Leu Asn Ser Gly Glu Asp Lys Ile Glu Asp Ile Leu Val Leu His Leu Asp Arg Gly Lys Asp Tyr Phe Leu Ser Val Ser Gly Asn Tyr Leu Pro Ser Cys Phe Gly Ser Pro

Ile His Thr Leu Cys Tyr Met Arg Glu Pro Ile Leu Asp Leu Pro Leu 745 Glu Thr Ile Ser Glu Leu Thr Leu Met Pro Val Trp Thr Gly Asp Asp 755 760 765 Gly Ser Gln Leu Asp Ser Pro Met Glu Ile Pro Lys Glu Leu Trp Met 775 780 Met Val Asp Tyr Leu Tyr Arg Asn Ala Val Gln Gln Glu Asp Leu Phe 790 795 Gln Gln Pro Gly Leu Arg Ser Glu Phe Glu His Ile Arg Asp Cys Leu 805 810 Asp Thr Gly Met Ile Asp Asn Leu Ser Ala Ser Asn His Ser Val Ala 825 Glu Ala Leu Leu Phe Leu Glu Ser Leu Pro Glu Pro Val Ile Cys 840 845 Tyr Ser Thr Tyr His Asn Cys Leu Glu Cys Ser Gly Asn Tyr Thr Ala 855 860 Ser Lys Gln Val Ile Ser Thr Leu Pro Ile Phe His Lys Asn Val Phe 870 875 His Tyr Leu Met Ala Phe Leu Arg Glu Leu Leu Lys Asn Ser Ala Lys 885 890 Asn His Leu Asp Glu Asn Ile Leu Ala Ser Ile Phe Gly Ser Leu Leu 900 905 Leu Arg Asn Pro Ala Gly His Gln Lys Leu Asp Met Thr Glu Lys Lys 915 920 925 Lys Ala Gln Glu Phe Ile His Gln Phe Leu Cys Asn Pro Leu 935 940

(2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 901 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (A) LIBRARY: GenBank
 - (B) CLONE: 1420920

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Met Glu Pro Pro Leu Pro Val Gly Ala Gln Pro Leu Ala Thr Val Glu 10 Gly Met Glu Met Lys Gly Pro Leu Arg Glu Pro Cys Ala Leu Thr Leu 20 Ala Gln Arg Asn Gly Gln Tyr Glu Leu Ile Ile Gln Leu His Glu Lys 40 Glu Gln His Val Gln Asp Ile Ile Pro Ile Asn Ser His Phe Arg Cys 55 Val Gln Glu Ala Glu Glu Thr Leu Leu Ile Asp Ile Ala Ser Asn Ser 70 75 Gly Cys Lys Ile Arg Val Gln Gly Asp Trp Ile Arg Glu Arg Arg Phe 85 90 Glu Ile Pro Asp Glu Glu His Cys Leu Lys Phe Leu Ser Ala Val Leu 105 Ala Ala Gln Lys Ala Gln Ser Gln Leu Leu Val Pro Glu Gln Lys Asp 115 120 125 Ser Ser Ser Trp Tyr Gln Lys Leu Asp Thr Lys Asp Lys Pro Ser Val 135 140 Phe Ser Gly Leu Leu Gly Phe Glu Asp Asn Phe Ser Ser Met Asn Leu 150 155 Asp Lys Lys Ile Asn Ser Gln Asn Gln Pro Thr Gly Ile His Arg Glu 165 170 175 Pro Pro Pro Pro Phe Ser Val Asn Lys Met Leu Pro Arg Glu Lys 185 190 Glu Ala Ser Asn Lys Glu Gln Pro Lys Val Thr Asn Thr Met Arg Lys

		195					200					205			
Leu	Phe 210		Pro	Asn	Thr	Gln 215		Gly	Gln	Arg	Glu 220		Leu	Ile	Lys
His 225	Ile	Leu	Ala	Lys	Arg 230	Glu	Lys	Glu	Tyr	Val 235		Ile	Gln	Thr	Phe 240
Arg	Phe	Phe	Val	Gly 245	Thr	Trp	Asn	Val	Asn 250	Gly	Gln	Ser	Pro	Asp 255	Ser
Gly	Leu	Glu	Pro 260	Trp	Leu	Asn	Cys	Asp 265	Pro	Asn	Pro	Pro	Asp 270	Ile	Tyr
	Ile	275					280					285			
	Glu 290			_		295		_			300				_
305	His				310					315					320
	Met			325					330			_		335	
	Asp		340					345					350		
	Asn	355					360					365			
	Cys 370					375					380		_		
385	Arg			_	390	_	_		_	395	_				400
	Pro			405					410			-		415	
	Ile		420					425					430		
	Glu	435					440					445			
	Phe 450					455					460				
465	Phe				470					475					480
	Lys			485					490					495	
	Cys		500					505					510		
	Arg	515					520					525			
	Leu 530					535					540				
545	Val				550					555					560
	Leu Lys			565					570					575	
	Gln		580					585					590		
	Tyr	595					600					605			
	610 Pro					615					620				
625	Ser				630					635					640
	Val			645					650					655	Ile
	Asn		660					665					670		
	Met	675					680					685			
	690 Glu					695					700				
705	JIU	U_LU	ήσι	DET	710	⊔⊏u	UI U	υy	U.L.U.	715	PET	₽€U	neα	GTII	720

Val Pro Leu Asp Glu Gly Ala Ser Glu Arg Pro Leu Gln Val Pro Lys 730 725 Glu Ile Trp Leu Leu Val Asp His Leu Phe Lys Tyr Ala Cys His Gln 740 745 750 Glu Asp Leu Phe Gln Thr Pro Gly Met Gln Glu Glu Leu Gln Gln Ile 755 760 765 Ile Asp Cys Leu Asp Thr Ser Ile Pro Glu Thr Ile Pro Gly Ser Asn 770 775 780 His Ser Val Ala Glu Ala Leu Leu Ile Phe Leu Glu Ala Leu Pro Glu 785 790 795 800 Pro Val Ile Cys Tyr Glu Leu Tyr Gln Arg Cys Leu Asp Ser Ala Tyr 805 810 815 Asp Pro Arg Ile Cys Arg Gln Val Ile Ser Gln Leu Pro Arg Cys His 820 825 Arg Asn Val Phe Arg Tyr Leu Met Ala Phe Leu Arg Glu Leu Leu Lys 845 840 835 Phe Ser Glu Tyr Asn Ser Val Asn Ala Asn Met Ile Ala Thr Leu Phe 855 860 Thr Ser Leu Leu Leu Arg Pro Pro Pro Asn Leu Met Ala Arg Gln Thr 865 870 875 880 Pro Ser Asp Arg Gln Arg Ala Ile Gln Phe Leu Leu Gly Phe Leu Leu 885 890 Gly Ser Glu Glu Asp 900